

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. *(Cancelled)*.
2. *(Previously Presented)* The telephone system of claim 5, wherein said ringing indication signal has a voltage amplitude less than 20 V RMS.
3. *(Previously Presented)* The telephone system of claim 5, wherein said ringing indication signal has a voltage amplitude higher than 1 V RMS.
4. *(Previously Presented)* The telephone system of claim 5, wherein said ringing indication signal has a voltage amplitude higher than 10 V RMS.
5. *(Currently Amended)* A telephone system wherein analog telephone signals are frequency multiplexed with digital data signals for transmission over a line, wherein, at a receiver at a customer premise, a conventional ringing signal is generated by the detection of an incoming telephone call is announced by a ringing indication signal having a voltage amplitude less than 30 V RMS and comprising a spectrum that lacks detectable components in a frequency band that is used for digital data signals at a time when the ringing indication signal announces an incoming telephone call.

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6. (*Previously Presented*) The telephone system of claim 5, wherein the ringing indication signal has a frequency lower than the frequency of analog telephone signals.

7. (*Previously Presented*) The telephone system of claim 5, wherein the ringing indication signal has a frequency that is one frequency of a set of available data carriers for digital signals, said digital data signals being transmitted using data carriers above said one frequency.

8. (*Cancelled*).

9. (*Previously Presented*) The installation of claim 12, wherein said ringing indication signal has a voltage amplitude less than 20 V RMS.

10. (*Previously Presented*) The installation of claim 12, wherein said ringing indication signal has a voltage amplitude higher than 1 V RMS.

11. (*Previously Presented*) The installation of claim 12, wherein said ringing indication signal has a voltage amplitude higher than 10 V RMS.

12. (*Currently Amended*) A central office installation for transmitting and receiving frequency multiplexed analog telephone signals and digital data signals over a line, wherein the installation comprises:

a splitter for demultiplexing and multiplexing analog telephone signals and digital data signals,

a digital data signals device connected to the splitter for transmitting and receiving digital data signals, and

an analog telephone signals device connected to the splitter for transmitting and receiving analog data signals, wherein the analog telephone signals device generates a conventional ringing signal when transmits a ringing indication signal is detected~~for announcing an incoming telephone call~~, the ringing indication signal having a voltage amplitude less than 30 V RMS and comprising a spectrum that lacks detectable components in a frequency band that is used for digital data signals at a time when the ringing indication signal announces an incoming telephone call.

13. (*Previously Presented*) The installation of claim 12, wherein the ringing indication signal has a frequency lower than the frequency of analog telephone signals.

14. (*Previously Presented*) The installation of claim 12, wherein the ringing indication signal has a frequency that is a frequency of a data carrier for the digital signals.

15. (*Previously Presented*) The installation of claim 12, wherein the analog telephone signals device transmits a ringing signal for announcing an incoming telephone call when said digital data signals device does not receive digital data signals, said ringing signal having a voltage amplitude higher than said ringing indication signal.

16. (*Previously Presented*) The installation of claim 12, wherein said splitter comprises a low pass filter for filtering analog telephone signals, and a high pass filter for filtering digital data signals, and wherein the order of said low pass and high pass filters is less than 5.

17. (*Cancelled*).

18. (*Previously Presented*) The splitter according to claim 22, wherein said ringing indication signal has a voltage amplitude less than 30 V RMS.

19. (*Previously Presented*) The splitter of claim 22, wherein said ringing indication signal has a voltage amplitude less than 20 V RMS.

20. (*Previously Presented*) The splitter of claim 22, wherein said ringing indication signal has a voltage amplitude higher than 1 V RMS.

21. *(Previously Presented)* The splitter of claim 22, wherein said ringing indication signal has a voltage amplitude higher than 10 V RMS.

22. *(Previously Presented)* A splitter for transmitting and receiving frequency multiplexed analog telephone signals and digital data signals over a line port, said splitter comprising:

means for demultiplexing and multiplexing analog telephone signals and digital data signals,

a telephone port for transmitting and receiving analog telephone signals to and from said demultiplexing and multiplexing means, and

ringing signal generation means for generating a ringing signal applied to the telephone port when a ringing indication signal is received over said line port, wherein the ringing indication signal has a voltage amplitude less than 30 V RMS and a spectrum that lacks detectable components in a frequency band for digital data signals at a time when the ringing indication signal announces an incoming telephone call.

23. *(Previously Presented)* The splitter of claim 22, wherein the ringing indication signal has a frequency lower than the frequency of analog telephone signals.

24. (*Previously Presented*) The splitter of claim 22, wherein the ringing indication signal has a frequency that is the frequency of a data carrier for the digital signals and the ringing signal has a voltage amplitude higher than the ringing indication signal.

25. (*Previously Presented*) The splitter of claim 22, further comprising switching means for isolating said telephone port from said line port when a ringing signal is generated and applied to said telephone port.

26. (*Previously Presented*) The splitter of claim 22, wherein said demultiplexing and multiplexing means comprise a low pass filter for filtering analog telephone signals, and a high pass filter for filtering digital data signals, and wherein the order of said low pass and high pass filters is less than 5.

27. (*Previously Presented*) The splitter of claim 22, further comprising a digital data signals port for transmitting and receiving digital data signals to and from said demultiplexing and multiplexing means, switching means between said digital data signals port and said line port, and power detection means for detecting improper power supply to the splitter and for opening said switching means when improper power supply is detected.

28. (*Previously Presented*) A central office installation for transmitting and receiving frequency multiplexed analog telephone signals and digital data signals over a line, wherein the installation comprises:

a splitter for demultiplexing and multiplexing analog telephone signals and digital data signals,

a digital data signals device connected to the splitter for transmitting and receiving digital data signals, and

an analog telephone signals device connected to the splitter for transmitting and receiving analog data signals, wherein the analog telephone signals device transmits a ringing indication signal for announcing an incoming telephone call, the ringing indication signal having a voltage amplitude less than 30 V RMS, wherein the analog telephone signals device transmits a ringing signal for announcing an incoming telephone call when the digital data signals device does not receive digital data signals and the ringing signal has a voltage amplitude higher than the ringing indication signal.